

What is claimed is:

1. A process for disintegrating compressed bales of material comprising:
5 a bale disintegration station having a conveyor;
a material separation station;
a bale disintegration device disposed to receive a bale from said conveyor and to feed
disintegrated material and foreign objects to said material separation station;
a suction system disposed in relation to said material separation station to remove
10 disintegrated material from said material separation station and transport the disintegrated
material through a material outlet; and
an auger disposed in relation to said material separation station such that foreign
objects are transported to a contaminate outlet.
- 15 2. The process according to Claim 1, wherein said bale disintegration device is a
beater roll.
3. The process according to Claim 1, wherein the intensity of the suction of said
suction system is selectively variable.
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4. The process according to Claim 3 wherein the intensity of the suction of said
suction system is selectively variable by controlling the position of the suction system
relative to said auger.
- 25 5. The process according to Claim 3 wherein the intensity of the suction of said
suction system is selectively variable by controlling the blower of the suction system.
6. The process according to Claim 1 wherein said auger is at the point of reversal
of the conveyor belt.
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7. The process according to Claim 1 wherein said suction system is placed above
said auger.

8. The process according to Claim 1 wherein said material outlet of the suction system is connected to a further processing apparatus for further processing the disintegrated materials.

5 9. The process according to Claim 1 wherein said suction system is adjustable in relation to the feeding and collecting auger.

10. The process according to Claim 1 wherein said material outlet includes a discharge chute.

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11. The process according to Claim 1 wherein the compressed bales of material are straw bales.

12. The process according to Claim 1 wherein the compressed bales of
15 material are coarse fiber-like materials.

13. The process according to Claim 1 wherein the compressed bales of material are synthetic materials.

20 14. The process according to Claim 1 wherein the compressed bales of material are natural materials.

15. The process according to Claim 1 wherein the material is discharged from said material outlet as an anti-erosion mat.

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